## **CLAIM AMENDMENTS**

- 100. (Currently Amended) An isolated immunogenic peptide consisting essentially of a portion of SEQ ID NO: 39, wherein said portion comprises (i) at least 9 contiguous amino acids from amino acids 56-70 of SEQ ID NO: 39 or (ii) at least 9 contiguous amino acids from amino acids 448-462 of SEQ ID NO: 39, or a derivative of either of the foregoing, wherein the amino acid sequence of the derivative is at least 85% identical with the immunogenic peptide, wherein the immunogenic peptide is about 9 to about 34 amino acids in length and or derivative thereof is recognized by a CD4<sup>+</sup> T lymphocyte, which is restricted by a Major Histocompatibility Complex (MHC) Class II molecule.
  - 101. Cancelled.
- 102. (Currently Amended) The immunogenic peptide of claim 100, wherein the portion comprises peptide consists essentially of amino acids 56-64 and 66-70 of SEQ ID NO: 39 and wherein amino acid 65 of SEQ ID NO: 39 is substituted with a valine.
- 103. (Currently Amended) The immunogenic peptide of claim 100, wherein the portion comprises peptide consists essentially of amino acids 448-450 and 452-462 of SEQ ID NO: 39 and wherein amino acid 451 of SEQ ID NO: 39 is substituted with a phenylalanine.
  - 104. Cancelled.
  - 105. Cancelled.
  - 106. Cancelled.
- 107. (Previously Presented) The isolated immunogenic peptide of claim 100, wherein the peptide consists of amino acids 56-70 of SEQ ID NO: 39.
- 108. (Previously Presented) The isolated immunogenic peptide of claim 100, wherein the peptide consists of amino acids 448-462 of SEQ ID NO: 39.

- 109. (Previously Presented) The isolated immunogenic peptide of claim 100, wherein the peptide consists of amino acids 57-70 of SEQ ID NO: 39.
- 110. (Previously Presented) The isolated immunogenic peptide of claim 100, wherein the peptide consists of amino acids 449-462 of SEQ ID NO: 39.
- 111. (Previously Presented) The isolated immunogenic peptide of claim 100, wherein the peptide consists of amino acids 450-462 of SEQ ID NO: 39.
- 112. (Previously Presented) The immunogenic peptide of claim 100, wherein the MHC Class II molecule is Human Leukocyte Antigen (HLA)-DR.
- 113. (Previously Presented) The immunogenic peptide of claim 112, wherein the HLA-DR is HLA-DRB1\*0401.
- 114. (Previously Presented) The immunogenic peptide of claim 100 linked to an MHC Class II molecule, or a portion thereof.
- 115. (Previously Presented) The immunogenic peptide of claim 114, wherein the portion of the MHC Class II molecule is the β chain of the MHC Class II molecule.
- 116. (Previously Presented) A composition comprising an immunogenic peptide of claim 100.
- 117. (Previously Presented) A composition comprising an immunogenic peptide of claim 114.
- 118. (Previously Presented) A method of inducing CD4<sup>+</sup> T lymphocytes to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 116 *in vitro*, and
  - (ii) simultaneously or subsequently exposing CD4<sup>+</sup> T lymphocytes to the antigen presenting cells *in vitro*,

- 119. (Previously Presented) The method of claim 118, wherein the CD4<sup>+</sup> T lymphocytes are obtained from a host and the method further comprises:
  - (iii) administering the CD4<sup>+</sup> T lymphocytes to the host.
- 120. (Previously Presented) The method of claim 119, wherein the host is a mammal.
- 121. (Previously Presented) The method of claim 120, wherein the mammal is a human.
- 122. (Previously Presented) The method of claim 119, wherein the antigen presenting cells are obtained from the host.
- 123. (Previously Presented) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 116 *in vitro*, and
  - (ii) subsequently exposing CD4<sup>+</sup> T lymphocytes in the host to the antigen presenting cells by administering the antigen presenting cells to the host,

- 124. (Previously Presented) The method of claim 123, wherein the host is a mammal.
- 125. (Previously Presented) The method of claim 124, wherein the mammal is a human.
- 126. (Previously Presented) The method of claim 123, wherein the antigen presenting cells are obtained from the host.
- 127. (Previously Presented) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises administering the composition of claim 116 to the host, whereupon the CD4<sup>+</sup> T lymphocytes in the host are induced to respond to melanoma.

- 128. (Previously Presented) A method of inducing CD4<sup>+</sup> T lymphocytes to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 117 in *vitro*, and
  - (ii) simultaneously or subsequently exposing CD4<sup>+</sup> T lymphocytes to the antigen presenting cells *in vitro*,

whereupon the CD4<sup>+</sup> T lymphocytes are induced to respond to melanoma.

- 129. (Previously Presented) The method of claim 128, wherein the CD4<sup>+</sup> T lymphocytes are obtained from a host and the method further comprises:
  - (iii) administering the CD4<sup>+</sup> T lymphocytes to the host.
- 130. (Previously Presented) The method of claim 129, wherein the host is a mammal.
- 131. (Previously Presented) The method of claim 130, wherein the mammal is a human.
- 132. (Currently Amended) The method of claim 128 129, wherein the antigen presenting cells are obtained from the host.
- 133. (Previously Presented) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 117 *in vitro*, and
  - (ii) subsequently exposing CD4<sup>+</sup> T lymphocytes in the host to the antigen presenting cells by administering the antigen presenting cells to the host,

whereupon the CD4<sup>+</sup>T lymphocytes in the host are induced to respond to melanoma.

134. (Previously Presented) The method of claim 133, wherein the host is a mammal.

- 135. (Previously Presented) The method of claim 134, wherein the mammal is a human.
- 136. (Previously Presented) The method of claim 133, wherein the antigen presenting cells are obtained from the host.
- 137. (Previously Presented) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises administering the composition of claim 117 to the host, whereupon the CD4<sup>+</sup> T lymphocytes in the host are induced to respond to melanoma.
- 138. (New) A derivative of the immunogenic peptide of claim 100, wherein the derivative is selected from the group consisting of (i) a peptide consisting essentially of amino acids 56-62 and 64-70 of SEQ ID NO: 39 and wherein amino acid 63 of SEQ ID NO: 39 is substituted with a valine; (ii) a peptide consisting essentially of amino acids 448-455 and 457-462 of SEQ ID NO: 39 and wherein amino acid 456 of SEQ ID NO: 39 is substituted with a valine; (iii) a peptide consisting essentially of 450-455 and 457-462 of SEQ ID NO: 39 and wherein amino acid 456 of SEQ ID NO: 39 is substituted with a valine; (iv) a peptide consisting essentially of amino acids 56, 57, and 59-70 of SEQ ID NO: 39 and wherein amino acid 58 of SEQ ID NO: 39 is substituted with a phenylalanine or a valine; and (v) a peptide consisting essentially of amino acids 448 and 450-462 of SEQ ID NO: 39 and wherein amino acid 449 of SEQ ID NO: 39 is substituted with a phenylalanine or a glutamine.
  - 139. (New) The derivative of claim 138, wherein MHC Class II is HLA-DR.
- 140. (New) The derivative of claim 139, wherein the HLA-DR is HLA-DRB1\*0401.
  - 141. (New) The derivative of claim 138 linked to an MHC Class II molecule, or a portion thereof.
- 142. (New) The derivative of claim 141, wherein the portion of the MHC Class II molecule is the  $\beta$  chain of the MHC Class II molecule.

- 143. (New) A composition comprising a derivative of claim 138.
- 144. (New) A composition comprising a derivative of claim 141.
- 145. (New) A method of inducing CD4<sup>+</sup> T lymphocytes to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 143 *in vitro*, and
  - (ii) simultaneously or subsequently exposing CD4<sup>+</sup> T lymphocytes to the antigen presenting cells *in vitro*,

whereupon the CD4<sup>+</sup> T lymphocytes are induced to respond to melanoma.

- 146. (New) The method of claim 145, wherein the CD4<sup>+</sup> T lymphocytes are obtained from a host and the method further comprises:
  - (iii) administering the CD4<sup>+</sup> T lymphocytes to the host.
  - 147. (New) The method of claim 146, wherein the host is a mammal.
  - 148. (New) The method of claim 147, wherein the mammal is a human.
- 149. (New) The method of claim 146, wherein the antigen presenting cells are obtained from the host.
- 150. (New) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 143 *in vitro*, and
  - (ii) subsequently exposing CD4<sup>+</sup> T lymphocytes in the host to the antigen presenting cells by administering the antigen presenting cells to the host.

- 151. (New) The method of claim 150, wherein the host is a mammal.
- 152. (New) The method of claim 151, wherein the mammal is a human.

- 153. (New) The method of claim 150, wherein the antigen presenting cells are obtained from the host.
- 154. (New) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises administering the composition of claim 143 to the host, whereupon the CD4<sup>+</sup> T lymphocytes in the host are induced to respond to melanoma.
- 155. (New) A method of inducing CD4<sup>+</sup> T lymphocytes to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 144 *in vitro*, and
  - (ii) simultaneously or subsequently exposing CD4<sup>+</sup> T lymphocytes to the antigen presenting cells *in vitro*,

- 156. (New) The method of claim 155, wherein the CD4<sup>+</sup> T lymphocytes are obtained from a host and the method further comprises:
  - (iii) administering the CD4<sup>+</sup> T lymphocytes to the host.
  - 157. (New) The method of claim 156, wherein the host is a mammal.
  - 158. (New) The method of claim 157, wherein the mammal is a human.
- 159. (New) The method of claim 156, wherein the antigen presenting cells are obtained from the host.
- 160. (New) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 144 *in vitro*, and
  - (ii) subsequently exposing CD4<sup>+</sup> T lymphocytes in the host to the antigen presenting cells by administering the antigen presenting cells to the host,

- 161. (New) The method of claim 160, wherein the host is a mammal.
- 162. (New) The method of claim 161, wherein the mammal is a human.
- 163. (New) The method of claim 160, wherein the antigen presenting cells are obtained from the host.
- 164. (New) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises administering the composition of claim 144 to the host, whereupon the CD4<sup>+</sup> T lymphocytes in the host are induced to respond to melanoma.
- 165. (New) An analog of the immunogenic peptide of claim 100, wherein the analog comprises a conservative substitution of an amino acid residue and wherein the analog is recognized by a CD4<sup>+</sup> T lymphocyte, which is restricted by a MHC Class II molecule.
  - 166. (New) The analog of claim 165, wherein MHC Class II is HLA-DR.
- 167. (New) The analog of claim 166, wherein the HLA-DR is HLA-DRB1\*0401.
  - 168. (New) The analog of claim 165 linked to an MHC Class II molecule, or a portion thereof.
  - 169. (New) The analog of claim 168, wherein the portion of the MHC Class II molecule is the  $\beta$  chain of the MHC Class II molecule.
  - 170. (New) A composition comprising an analog of claim 165.
  - 171. (New) A composition comprising an analog of claim 168.

- 172. (New) A method of inducing CD4<sup>+</sup> T lymphocytes to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 170 *in vitro*, and
  - (ii) simultaneously or subsequently exposing CD4<sup>+</sup> T lymphocytes to the antigen presenting cells *in vitro*,

whereupon the CD4<sup>+</sup> T lymphocytes are induced to respond to melanoma.

- 173. (New) The method of claim 172, wherein the CD4<sup>+</sup> T lymphocytes are obtained from a host and the method further comprises:
  - (iii) administering the CD4<sup>+</sup> T lymphocytes to the host.
  - 174. (New) The method of claim 173, wherein the host is a mammal.
  - 175. (New) The method of claim 174, wherein the mammal is a human.
- 176. (New) The method of claim 173, wherein the antigen presenting cells are obtained from the host.
- 177. (New) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 170 *in vitro*, and
  - (ii) subsequently exposing CD4<sup>+</sup> T lymphocytes in the host to the antigen presenting cells by administering the antigen presenting cells to the host,

- 178. (New) The method of claim 177, wherein the host is a mammal.
- 179. (New) The method of claim 178, wherein the mammal is a human.
- 180. (New) The method of claim 177, wherein the antigen presenting cells are obtained from the host.

- 181. (New) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises administering the composition of claim 170 to the host, whereupon the CD4<sup>+</sup> T lymphocytes in the host are induced to respond to melanoma.
- 182. (New) A method of inducing CD4<sup>+</sup> T lymphocytes to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 171 *in vitro*, and
  - (ii) simultaneously or subsequently exposing CD4<sup>+</sup> T lymphocytes to the antigen presenting cells *in vitro*,

whereupon the CD4<sup>+</sup> T lymphocytes are induced to respond to melanoma.

- 183. (New) The method of claim 182, wherein the CD4<sup>+</sup> T lymphocytes are obtained from a host and the method further comprises:
  - (iii) administering the CD4<sup>+</sup> T lymphocytes to the host.
  - 184. (New) The method of claim 183, wherein the host is a mammal.
  - 185. (New) The method of claim 184, wherein the mammal is a human.
- 186. (New) The method of claim 183, wherein the antigen presenting cells are obtained from the host.
- 187. (New) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises:
  - (i) contacting antigen presenting cells with a composition of claim 171 *in vitro*, and
  - (ii) subsequently exposing CD4<sup>+</sup> T lymphocytes in the host to the antigen presenting cells by administering the antigen presenting cells to the host,

whereupon the CD4<sup>+</sup>T lymphocytes in the host are induced to respond to melanoma.

188. (New) The method of claim 187, wherein the host is a mammal.

- 189. (New) The method of claim 188, wherein the mammal is a human.
- 190. (New) The method of claim 187, wherein the antigen presenting cells are obtained from the host.
- 191. (New) A method of inducing CD4<sup>+</sup> T lymphocytes in a host to respond to melanoma, which method comprises administering the composition of claim 171 to the host, whereupon the CD4<sup>+</sup> T lymphocytes in the host are induced to respond to melanoma.